

WE ARE HERE TO HELP

Osaka Soda

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OSAKA SODA ADME COLUMN 專為極性樣品設計

FEATURE

- ADME-HR 管柱為OSAKA SODA 獨有的合成技術
- C12構造的籠狀結構,以及高極性的表面親和力
- 能承受100%純水相的環境
- 相較一般逆相管柱它能提供給您更多意想不到的分析效果

ADME-HR

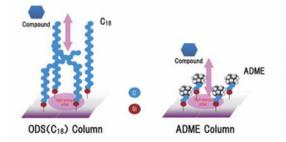
Functional group	Pore size (A)	Particle size (um)	Surface Area (m2/g)	Carbon loadong (%)	Pressure resistance (Mpa)	pH range	USP class No.
C12 (Adamantyl)	100	2,3,5	310	12	20	2-9	-

ADME-HR INERT

Functional group	Pore size (A)	Particle size (um)	Surface Area (m2/g)	Carbon loadong (%)	Pressure resistance (Mpa)	pH range	USP class No.
C12 (Adamantyl)	100	3	310	12	50	2-9	-

獨家官能基設計 ADME





鍵結C12獨特官能基,提供全新分離思路!

較短鍊的C12 籠狀結構,增加樣品與極性表面的接觸面積,提升對極性樣品的滯留能力。

N-glycan 分析

■ PA (pyridylamino) glycans

與其他公司的ODS管柱相比,CAPCELL PAK ADME-HR不僅顯示出更高的保留 率,而且實現了完全的基線分離。

HPLC Conditions

Column size : \$3 ; 2.1 mm i.d. × 150 mm

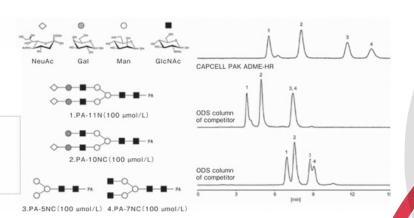
Mobile phase : 20 mmol/L CH₂CONH₄ / CH₂CN = 95 / 5

Flow rate : 200 μL/min

Temperature : 40 °C

Detection : FL Ex. 310 nm, Em. 380 nm
Inj. vol. : 2 μL

Sample dissolved in : H₂C



OSAKA SODA MGII **COLUMN** 分析方法開發的首選

FEATURE

- 適合在中性環境下分離鹼性化合物
- 良好的泛用性
- 卓越的批次間重複性
- 高水準的耐鹼性
- 最好的**避免矽醇基的干**擾



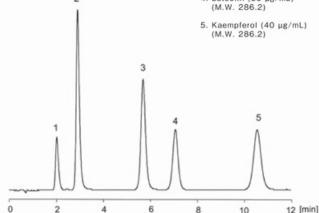
MGII
Column

group	(A)	size (um)	Area (m2/g)	loadong (%)	resistance (Mpa)	range	class No.
C18 (octadecly)	100	3	300	16	20	2-10	L1
C18 (octadecly)	100	5	300	16	20	2-10	L1

黃酮類化合物

使用CAPCELL PAK C18 MG II S3 的管柱分析芸香苷、楊梅黃酮、槲皮 素、木犀草素、山奈酚。

- 1. Rutin (50 ug/mL) (M.W. 610.5)
- Myricetin (50 μg/mL) (M.W. 318.2)
- Quercetin (50 μg/mL) (M.W. 302.2)
- 4. Luteolin (50 μg/mL) (M.W. 286.2)



HPLC Conditions

Mobile phase

: CAPCELL PAK C18 MG II S3 : 2.0 mm i.d. × 50 mm Column

> : 0.1 vol% HCOOH / CH3OH = 60 / 40 : 200 µL/min

Flow rate : 40 °C Temperature : PDA 380 nm Detection Inj. vol. : 1 µL Sample dissolved in : Mobile phase

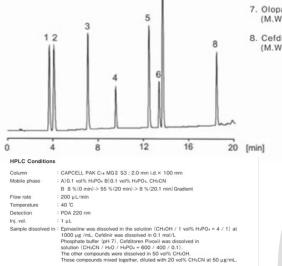
小分子藥物分析

分析解熱鎮痛劑、止咳和祛痰藥物、 抗組胺藥和抗生素等各種成分。

- 1. Acetaminophen (50 µg/mL) (M.W. 151.1) 2. Procaterol (50 µg/mL)
- 3. Cefdinir (50 µg/mL) (M.W. 395.4)

(M.W. 290.4)

- 4. Tulobuterol (50 μg/mL)
- 5. Epinastine (50 µg/mL) (M.W. 249.3)
- 6. Dextromethorphan (50 µg/mL) (M.W. 271.4)
- Olopatadine (50 μg/mL) (M.W. 337.4)
- 8. Cefditoren Pivoxil (50 µg/mL) (M.W. 620.7)



OSAKA SODA MGIII COLUMN UHPLC首選管柱

FEATURE

- 適合在中性環境下分離鹼性化合物
- 良好的泛用性
- 卓越的批次間重複性
- 高水準的耐鹼性
- 最好的**避免矽醇基的干擾**



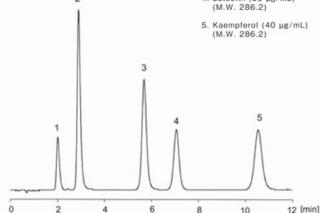
MGII
Column

Functional group	Pore size (A)	Particle size (um)	Surface Area (m2/g)	Carbon loadong (%)	Pressure resistance (Mpa)	pH range	USP class No.
C18 (octadecly)	100	3	300	16	20	2-10	L1
C18 (octadecly)	100	5	300	16	20	2-10	L1

黃酮類化合物

使用CAPCELL PAK C18 MG II S3 的管柱分析芸香苷、楊梅黃酮、槲皮 素、木犀草素、山奈酚。

- 1. Rutin (50 ug/mL) (M.W. 610.5)
- Myricetin (50 μg/mL) (M.W. 318.2)
- Quercetin (50 μg/mL) (M.W. 302.2)
- 4. Luteolin (50 μg/mL) (M.W. 286.2)



HPLC Conditions

Column : CAPCELL PAK C18 MG II S3 ; 2.0 mm i.d. × 50 mm

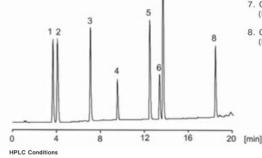
Mobile phase : 0.1 vol% HCOOH / CH3OH = 60 / 40

Flow rate : 200 µL/min : 40 °C Detection : PDA 380 nm : 1 µL Sample dissolved in : Mobile phase

小分子藥物分析

分析解熱鎮痛劑、止咳和祛痰藥 物、抗組胺藥和抗生素等各種成分。

- 1. Acetaminophen (50 µg/mL) (M.W. 151.1)
 - 2. Procaterol (50 µg/mL) (M.W. 290.4)
 - Cefdinir (50 μg/mL) (M.W. 395.4)
 - 4. Tulobuterol (50 μg/mL) (M.W. 227.7)
- Epinastine (50 μg/mL) (M.W. 249.3)
- 6. Dextromethorphan (50 µg/mL) (M.W. 271.4)
- 7. Olopatadine (50 µg/mL)
- 8. Cefditoren Pivoxil (50 µg/mL) (M.W. 620.7)



CAPCELL PAK C18 MG II S3; 2.0 mm i.d. × 100 mm Mobile phase

A) 0.1 vol% H₃PO₄ B) 0.1 vol% H₃PO₄, CH₃CN B 8 % (0 min) -> 55 % (20 min) -> 8 % (20.1 min) Gra 200 μL/min

Temperature Detection Inj. vol. 40 °C PDA 220 nm 1 µL

Sample disso

OSAKA SODA KG COLUMN

優越的PH耐受性

FEATURE

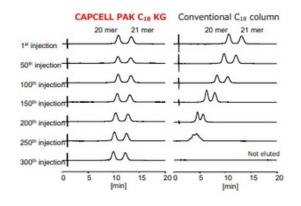
- 超廣的PH 耐受性 (1-12)
- 良好的泛用性
- 卓越的批次間重複性
- 高水準的耐鹼性
- 全新的高分子合成技術,改善矽基材的耐受性



KG
Column

Functional group	Pore size (A)	Particle size (um)	Surface Area (m2/g)	Carbon loadong (%)	Pressure resistance (Mpa)	pH range	USP class No.
C18 (octadecly)	100	3	320	17	20	1-12	L1
C18 (octadecly)	100	5	320	17	20	1-12	

高溫耐受性



[HPLC Conditions]

Column : CAPCELL PAK C18 KG S3 : 2.1 mm i.d. x 100 mm Mobile phase:

: A) 15 mmol/L DBA, 50 mmol/L HFIP B) 15 mmol/L DBA, 50 mmol/L HFIP, 50 % CH₂OH

B 73 % (0 min) -> 78 % (20 min) -> 73 % (20.1 min) Gradient

Temperature : 60 ° C

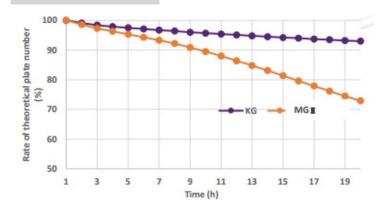
Detection : UV 270 nm

Inj. vol. : 2 mL

Sample : 100 mg/mL each in 10 mmol/L Tris-HCl buffer (pH 8)

在60度下注射300針依然保持高效分離能力!

超強pH耐受性



在pH 11 情況下運行 19 小 時管柱依然保持高效。

OSAKA SODA CORE COLUMN 提升分析效能

FEATURE

- 在HPLC系統達到近乎UHPLC的效果
- 高效分析,縮短分析時間
- 卓越的批次間重複性
- 提高分析效能
- 降低螯合物所造成的脫尾

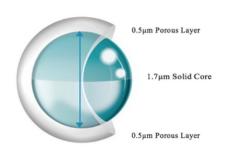
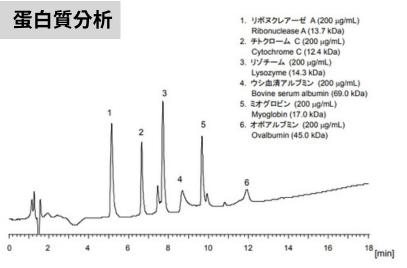


Fig. 1 Core shell structure

CORE Column

Functional group	Pore size (A)	Particle size (um)	Surface Area (m2/g)	Carbon loadong (%)	Pressure resistance (Mpa)	pH range	USP class No.
C18 (octadecly)	90	2.7	150	7	60	1.5-10	L1
MP (middle pore)	160	2.7	90	5	60	2-10	



Core shell

減少溶質擴散效應提升分離能力!

[HPLC Conditions]

Column Mobile phase CAPCELL CORE WP S2.7; 2.1 mm i.d. x 100 mm

: A) 0.1 vol% TFA, B) 0.1 vol% TFA, CH₃CN B 20 % (0 min) → 70 % (20 min) → 20 % (20.1 min) Gradient

Flow rate 200 µL/min Temperature 40 °C Detection

UV 220 nm

Inj. vol. Sample dissolved in

: Each standard was dissolved at 2 mg/mL in $H_2\text{O}.\ 100\ \mu\text{L}$ of all

solutions were added together, and diluted to 1 mL with H2O.





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